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PATENT
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In the United States Patent & Trademark Office

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| Applicants: S. Banerjee et al. | Examiner: N. Yang |
| Serial No.: 10/034,727 | Group Art Unit: 1641 |
| Confirmation No. 1379 Filed: 12/26/2001 | |
| For: Directed Assembly of Functional Heterostructures | I hereby certify that, on the date indicated below, this correspondence was sent by fax to the Commissioner for Patents, at (571) 273-8300. By:  Date: 8/30/2005 |

Response and Amendment

Commissioner for Patents
PO Box 1450
Alexandria VA 22313-1450

Dear Sir:

In response to the Office Action of 06/30/2005, please consider the following comments and amendments.

Remarks

A terminal disclaimer is included to overcome the provisional obviousness-type patenting rejection over Serial No. 2003/0138842 is enclosed herewith.

The claims have been amended by adding "are" after "beads" in claim 83 to overcome the rejection under Section 112, para. 2..

The Examiner has rejected claims 82-86, 89 and 91 under Section 102(e) as anticipated by Muller-Schulte. Claim 82 has been amended to recite that the particles are encoded "with a label, ... and the encoding indicates the type of biomolecule displayed on particular beads and the type of analyte said biomolecule is capable of binding with." Such particles are not disclosed in Muller-Schulte, which discusses magnetic particles formed when iron oxide is trapped inside PVAL polymer, which can be coupled with